

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name Gerry S.	Official Number 8936	Nationality and Port of Registry Dutch Rotterdam	Gross Tonnage 499.83	Date of Build 1952.	Port of Survey Terneuzen
					Date of Survey White Building
Moulded Dimensions: Length 54.25 M Breadth 9.50 M Depth 4.03 M <i>To Ctr of R.S.</i>					Surveyor's Signature C. Roessendonck
Moulded displacement at moulded draught = 85 per cent. of moulded depth 1251 m³ tons					Particulars of Classification * 100 H 1
Coefficient of fineness for use with Tables 721.709					

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... 4.030 M	(a) Where D is greater than Table depth (D - Table depth) R = 8.33(4.037 - 3.616) 13.699 = + 48 m/m.	Moulded Breadth (B) 9.509 M
Stringer plate007	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = ✓	Standard Round of Beam = $\frac{B \times 12}{50} = \frac{9.509 \times 12}{50} = 228.216$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures ✓	Ship's Round of Beam = 190
Depth for Freeboard (D) = 4.037		Difference NIL.
		Restricted to
		Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L} \right) = \text{NIL.}$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	13.100	13.100	2.045-11.23	2.045	13.100
„ overhang360	.180			.180
R.Q.D. enclosed ...	✓				
„ overhang ...	✓				
Bridge enclosed ...	18.700	18.700	2.020	1.0	18.700
„ overhang aft ...	✓				
„ overhang forward ...	5.00				
Fore enclosed ...	8.700	8.700	2.090	✓	8.700
„ overhang550	.275			.275
Trunk aft ...	✓				
„ forward ...	1.290	SEE OVER.			
Tonnage opening aft ...	1.650	.588	2.170	✓	.588
„ „ forward ...	✓				
Total ...	42.700	41.543			41.543

Standard Height of Superstructure **1830 m/m.**

„ „ R.Q.D. **✓**

Deduction for complete superstructure **605 m/m.**

Percentage covered $\frac{S}{L} = 78.71$

„ „ $\frac{S_1}{L} = 76.58$

Percentage from Table, Line A. **71.09**

(corrected for absence of forecastle (if required))

Percentage from Table, Line B. **✓**

(corrected for absence of forecastle (if required))

Interpolation for bridge less than .2L (if required) **✓**

Deduction = **605 + 71.09 = 430 m/m.**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	706	1	✓	706	635	825	706	1	706
$\frac{1}{2}$ L from A.P. ...	314	4	✓	1256	331	367	314	4	1256
$\frac{3}{4}$ L „ ...	78	2	✓	156	0	91	78	2	156
Amidships ...	✓	4	✓	✓	0	0	✓	4	✓
$\frac{3}{4}$ L from F.P. ...	157	2	✓	314	75	75	157	2	150
$\frac{1}{2}$ L „ ...	627	4	✓	2508	369	369	627	4	1476
F.P. ...	1412	1	✓	1412	400	400	1412	1	400
Total ...			✓	6352					4144

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{2208}{18} \left(.75 - \frac{3936}{2 \times 41.543} \right) = + 44 \text{ m/m.}$

If limited on account of midship superstructure. **✓**

Mean actual sheer aft = **EXCESS.**

Mean standard sheer aft = **EXCESS.**

Mean actual sheer forward = **DEFICIENT.**

Mean standard sheer forward = **DEFICIENT.**

Length of enclosed superstructure forward of amidships = **DEFICIENT SHEER.**

„ „ aft of „ = **DEFICIENT SHEER.**

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **4.037**

Summer freeboard = **.170**

Moulded draught (d) = **3.867**

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{48} = \frac{3.867}{48} = 8 \text{ cm.}$

Addition for Winter North Atlantic Freeboard (if required) = **13 cm.**

Deduction for Fresh Water.

Displacement in salt water at summer load water line **1479 m³ S.W.**

per inch immersion at summer load water line **T = 10.84 m³ S.W.**

Deduction = $\frac{\Delta}{40 T} \text{ inches} = \frac{1479}{40 \times 10.84} = 3.41 \text{ inches} = 8.7 \text{ cm.}$

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{706 + 68}{1.36} = \frac{1388}{1.36} = 1019.85$

Depth Correction ... **48**

Deduction for superstructures ... **430**

Sheer correction ... **44**

Round of Beam correction ... **✓**

Correction for Thickness of Deck amidships ... **✓**

Other corrections, scantlings, etc. ... **✓**

Summer Freeboard = **165**

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, **Wood, Steel, Deck** :-

Tropical Fresh Water Line above Centre of Disc **17 cm.**

Fresh Water Line „ **9 cm.**

Tropical Line „ **8 cm.**

Winter Line below „ **8 cm.**

Winter North Atlantic Line „ **13 cm.**

Tropical Fresh Water Freeboard **17 cm.**

Fresh Water „ **8 cm.**

Tropical „ **9 cm.**

Winter „ **25 cm.**

Winter North Atlantic „ **30 cm.**

M/V Gerry S.

A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

Tonnage opening.

$$\begin{aligned} & \frac{9.50 - 5.70}{9.50} \\ & = \frac{3.80}{9.50} = 1400 \times 1.470 = 588 \end{aligned}$$

Trade of ship Ocean going

Names of sister ships None

Builder's name and yard number N.V. Terneuzensche Scheepsbouw Maatschappij Yard 17° 54

Owners N.V. Rotterdamsche Kolen Centrale

Fee £ Will be charged with F.E.



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